

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

GENERAL PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

MO-G750000

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

All Outfalls - SIC #7542

Vehicle wash wastewater treatment systems for design flows of 50,000 gallons per day or less. This includes no-discharge land application systems. Provides for 500 gallons per day de minimis exemption under certain conditions.

This permit authorizes only wastewater, including storm waters, discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

May 30, 2003

Effective Date

Stephen M. Mahood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

May 29, 2008

Expiration Date
MO 780-1481 (7-94)

Jim Hull, Director of Staff, Clean Water Commission

APPLICABILITY

1. This permit authorizes the discharge or land application from vehicle washing facility wastewater treatment systems. Total design flow is limited to 50,000 gallons per day. Domestic wastewater may be treated by the system but is not to exceed a 20 population equivalent (P.E.) design flow for wastewater discharges; the population equivalent limit does not apply to properly designed and maintained land application systems.
2. Holders of current individual State Operating permits who desire inclusion under this general permit should contact the department for application requirements.
3. If at any time the Missouri Department of Natural Resources determines that the quality of waters of the state may be better protected by requiring the owner to apply for an individual State Operating Permit, the department may do so.
4. If at any time the permittee should desire to apply for an individual State Operating permit, the permittee may do so.
5. This permit does not apply to sites with a design flow exceeding 50,000 gallon per day.
6. This permit authorizes the discharge or land application of treated vehicle wash and domestic wastewaters only. It does not authorize discharge of untreated wash and domestic waste waters to surface waters or ground waters.
7. This permit is not a substitute for, nor is it a waiver of, the requirement for a construction permit for the treatment systems used to treat vehicle wash wastewater.
8. This permit does not apply to discharges to any streams designated for whole body contact recreation or to losing streams, sinkholes or other direct conduits to groundwater.
9. Facilities that discharge directly to a combined sewer system are exempt from permit requirements.
10. De-minimis Exemption

Any wash facility that has an average design flow of less than 500 gallons per day and does not allow the water to discharge from the property is exempted from obtaining this permit. This exemption does not include so called "mobile wash facilities" that do not have the property owners permission to wash on their property.

REQUIREMENTS

Note: These requirements do not supersede nor remove liability for compliance with county and other local ordinances.

1. Report as no-discharge when a discharge does not occur during the report period.
2. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, vehicle bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
3. Sludge and Sediment Disposal

Sludge and sediment shall be disposed at a permitted solid waste disposal facility in accordance with 10 CSR 80, or other disposal methods approved by the department.
4. Land Application of Wastewater
 - (a) Land application rates shall not exceed 0.25 inches/acre/hour; 1.0 inch/acre/week; and 24 inches/acre/year.
 - (b) Application equipment shall provide uniform application and shall be observed daily for proper operation.
 - (c) The land application site shall have a dense stand of vegetation during the application periods.
 - (d) Soil samples shall be monitored once every 5 years for soil pH, % Exchangeable Sodium Percentage (ESP), Sodium Absorption Ratio (SAR), and available phosphorus.
 - (e) Soil pH shall be maintained between pH 6.0 - 7.5 using the salt based test method in accordance with University of Missouri Soil Testing Laboratory procedures.
 - (f) Available phosphorus shall not exceed 300 pounds per acre as P using Brays P-1 test.
 - (g) The Exchangeable Sodium Percentage (ESP) should be less than 5% and in no case greater than 15%.
 - (h) The Sodium Absorption Ratio (SAR) must be determined on the irrigated wastewater in April and September of each year. The SAR should be maintained at 3 or less and in no case shall it exceed 9.
 - (i) Land application shall not occur within 1,000 feet of losing stream or sinkholes, pond or lake; 300 feet of a well; 150 feet from dwellings; 100 feet from a stream bank, including intermittent flowing streams; and 50 feet from the property line.
 - (j) Land application shall not occur during freezing conditions or when soil is saturated.
 - (k) Wastewater shall not be applied to public use areas or public access areas.
 - (l) Wastewater treatment and storage facilities and other design requirements shall be in accordance with design rules under 10 CSR 20-8.020(15).

REQUIREMENTS (continued)

5. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

6. All outfalls must be clearly marked in the field.
7. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

DUTY OF COMPLIANCE

The permittee shall comply with all conditions of this general permit. Any noncompliance with this general permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6.200. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal.

TERMINATION OF PERMIT

If activities covered by this permit have ceased and this permit no longer applies, the permittee shall request termination of this permit. The permittee shall submit Form H, Termination of General Permit.

PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 5	
					PERMIT NUMBER MO-G750000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 (Note 1)						
Flow	MGD	*		*	once/quarter**	grab
Biochemical Oxygen Demand ₅	mg/L	45		30	once/quarter**	grab
Fecal Coliform	#/100mL	1000		400	once/quarter**	grab
Total Suspended Solids	mg/L	120		90	once/quarter**	grab
Chemical Oxygen Demand	mg/L	30		20	once/quarter**	grab
Chloride	mg/L	250		250	once/quarter**	grab
Phosphorus, Total	mg/L	0.5		0.5	once/quarter**	grab
Oil and Grease	mg/L	15		10	once/quarter**	grab
Sodium	µg/L	250		250	once/quarter**	grab
Lead, Total Recoverable	µg/L	12.0		12.0	once/quarter**	grab
Boron, Total Recoverable	µg/L	2,000		2,000	once/quarter**	grab
Zinc, Total Recoverable	µg/L	175		175	once/quarter**	grab
Copper, Total Recoverable	µg/L	20.0		20.0	once/quarter**	grab
Residual Chlorine	µg/L	***		***	once/quarter**	grab
Temperature	°F	95°		95°	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
Surfactants	mg/L	*		*	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of January, April, July, and October.
- *** Residual Chlorine shall not be present in detectable amounts.
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - If wastewater is being land applied, the final effluent limitations and monitoring requirements shall apply, only to flow, Chemical Oxygen Demand, and Total Suspended Solids, at the point of any discharge from the land application field, including storm water runoff. Samples of storm water discharge from the application field shall be collected within 30 minutes of a storm event exceeding 0.2 inches, if wastewater was land applied during the report period. Report as no-discharge, if wastewater was not land applied during the report period and there were no other discharges from the facility.